Formula 1:

$$P(\Omega) = \int_{-\infty}^{+\infty} f(x)\, dx = 1 \tag{1}$$

Formula 2:

$$E(X) := \int_{-\infty}^{+\infty} x\, f(x)\, dx \tag{2}$$

A third one, with references to 1 and 2:

$$
\begin{aligned}
E(aX + b) &= \int_{-\infty}^{+\infty} (ax - b)\, f(x)\, dx \\
&= a \int_{-\infty}^{+\infty} x\, f(x)\, dx + b \int_{-\infty}^{+\infty} f(x)\, dx \\
&\underset{(1),(2)}{=} aE(X) + b
\end{aligned}
\tag{3}
$$

And another one:

$$V(X) = \frac{a^2 + b^2 + c^2 - ab - ac - bc}{18} \tag{4}$$